

WHAT IS CLAIMED IS:

1. A magnetic reproducing device comprising:  
    a signal detecting means for detecting a signal  
from a magnetic recording medium by a coil;  
    an amplifying means for amplifying the signal  
detected by said signal detecting means;  
    a filtering means for filtering the signal  
amplified by said amplifying means; and  
    a capacitor connected in parallel to the coil of  
said signal detecting means;  
    wherein the actual resonance frequency of a  
resonance circuit including said coil, said capacitor and  
a floating capacitance is set to be four to eight times  
the maximum reproduction frequency.

2. The magnetic reproducing device according to  
claim 1, wherein said magnetic recording medium is a 3.5-  
inch micro floppy disk, and the resonance frequency of  
said resonance circuit including the coil of said  
detecting means, said capacitor and the floating  
capacitance is in a range from 1 to 2 MHz, and the  
maximum reproduction frequency is 250 kHz.

3. The magnetic reproducing device according to  
claim 1, wherein said magnetic recording medium is a 3.5-  
inch micro floppy disk, and the resonance frequency of

said resonance circuit including the coil of said detecting means, said capacitor and the floating capacitance is in a range from 2 to 4 MHz, and the maximum reproduction frequency is 500 kHz.

4. The magnetic reproducing device according to claim 1, wherein said magnetic recording medium is a 3.5-inch micro floppy disk, and a control means is further provided for selectively switching the filtering characteristic of said filtering means in response to detection of a magnetic signal from the vicinity of the innermost portion of said 3.5-inch micro floppy disk by said detecting means, or in response to detection of a magnetic signal from the vicinity of the outermost portion of said disk.

5. The magnetic reproducing device according to claim 4, wherein said filtering means is switched to a Chebyshev characteristic filter by said control means when a magnetic signal has been detected from the vicinity of the innermost portion of said 3.5-inch micro floppy disk, and said filtering means is switched to a Butterworth characteristic filter when a magnetic signal has been detected from the vicinity of the outermost portion of said disk.